#### Work Order ID 63669

Tuesdáv, November 09, 2010 12:58:54 PM



Page 1

Item ID:

D4035-047

Accept



Setup Start

Stop



**Revision ID:** 

Item Name:

Lid Rib Assembly, Aft (Light)

**Start Date:** 

**Required Date:** 11/16/2010

11/9/2010

Start Oty: 2.00

Reg'd Oty: 2.00



Cust Item ID:

**Customer:** 

Reference:

Approvals:

Process Plan: MK

Date:0-11-9

Tooling:

Date:

Date:

Run

Start

QC:

Date:

SPC (Y/N):

Tool # Plan

Accept

Reject Qty

Stop

Sequence ID/ Work Center ID

Operation Description

**Revision Nbr** 

Set Up/ **Run Hours** 

Tool ID

Code

Qty

Reject Number Insp. Stamp

**Draw Nbr** D4035

Α

Weld per dwg A/R Aluminum rod Batch: 112860 0.00

Large Fab Large Fab

100

Memo

0.00

1- Cut D4035-7 as per dwg D4035

2- Drill hole using DT9620 and chamfer holes as per dwg D4035

3- remove identification marks and deburr

4- Weld bushing in rib and grind weld flush as per dwg D4035

MATERIAL CERTIFICATION REQ'D UPON DELAYERY

SAD 16-11-69

110

QC9- Inspect visual per QSI004- Fusion Welds

0.00

Memo

0.00

2 1 BE10/11/10

Quality Control

# **Dart Aerospace Ltd**

W/O:		WORK ORDER CHANGES	•				
DATE	STEP	PROCEDURE CHANGE	Ву	Date	Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector
							:
					,		
			5				
L	1				<u> </u>	<u></u>	<u></u>

Part No:		_PAR #:	Fault Category:	NCR: Yes No DQA:	Date:
	Resolution:		Disposition:	QA: N/C Closed:	Date:

NCR:		WORK ORDER NON-CONFORMANCE (NCF						
		Description of NC		Corrective Action Section B		Verification	Approval	Approval
DATE	STEP	Section A	Initial Chief Eng	Action Description Chief Eng	Sign & Date	Section C	Approval Chief Eng	QC Inspector



Page 2

Insp.

Stamp

Work Order ID 63669 Tuesday, November 09, 2010 12:58:54 PM Item ID: D4035-047 Accept Setup Start **Revision ID:** Stop Item Name: Lid Rib Assembly, Aft (Light) **Start Date:** 11/9/2010 Start Qty: 2.00 **Cust Item ID: Required Date:** 11/16/2010 Req'd Qty: 2.00 **Customer:** Reference: Run Start Approvals: Process Plan: Date: Tooling: Date: \_\_\_\_ Stop Date: \_\_\_\_\_ **SPC (Y/N):** Date: Sequence ID/ Operation Set Up/ Tool ID Reject Tool # Plan Accept Reject **Work Center ID Description Run Hours** Code Qty Qty Number 120 QC5- Inspect part completeness to step on W/O Dolulo0 QC Memo Quality Control Identify as per dwg & Stock Location: 130 0.00 Packaging 0.00 Memo Packaging

140

Quality Control

QC21- Final Inspection - Work Order Release

0.00

Memo

0.00

10.11.18

W/O: WORK ORDER CHANGE  DATE STEP PROCEDURE CHANGE					ES					
DATE	STEP	PRO	CEDURE CH	ANGE	В	y	Date	Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector
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		·								
Part No	•	PAR #:	Fault Cat	egory:	_ NCR: `	res N	o <b>DQ</b> /	<b>A</b> :	Date:	
		esolution:								
NCR:		ORK ORI	DER NON-CONFORMA	ANCE (I	ICR)					
DATE	STEP	Description of NC			ion B		Verific	ation	Approval	Approval
DAIL	JILI	Section A	Initial Chief Eng	Action Description Chief Eng		ign & Date	Secti	on C	Chief Eng	QC Inspector
					ļ					
					-					
*										

### Picklist Print

Tuesday, November 09, 2010 12:58:54 PM

Work Order ID: 63669

Parent Item: D4035-047

Parent Item Name: Lid Rib Assembly, Aft (Light)



**Start Date:** 11/9/2010

**Required Date:** 11/16/2010

Start Qty: 2.00

Required Qty: 2.00

Com	ments:
~~	

IPP RevA: new issue DD 10.01.25 verified by:EC per dwg revA 10.03.15 verified by:EC

IPP Rev:B as

	er dwg revA 10.03	5.15 verified by:E											
Component Item ID/ Item Name	Replacement Item ID	Mfg/ Purch	Bin Item	Primary Location	Last Location	Route Seq ID	Unit of Measure	Qty on Hand	Qty per Kit	Total Qty	Qty Issued	Date Issued	Status
D4035-11		Manufactured	No			100	Each	30.0000	2	4	flo.	2.07	
				Location	1	Loc	<u>Oty</u>	Loc Code					
				ST109			14				_		
					58376		14		_(	3)	_		
				WA			16		_		_		
					59749		16		_				
M6061T6TS0.750W.06		Purchased	No			100	f	147.2282	1.875	3.94736	8		
-	x .062W									SAL	)	<u>3-1(-</u>	-09
			•	Location	!	Loc	<u>Qty</u>	Loc Code					
				MAT		69.5	5297		_		_		
					114573		1055		_		_		
					114640	47.4	4747		<u>. 1</u>	.9	_		
				MAT06			6752		_		_		
					103069 104422		0526		_				
					16441	15.	5263 4.07		_				

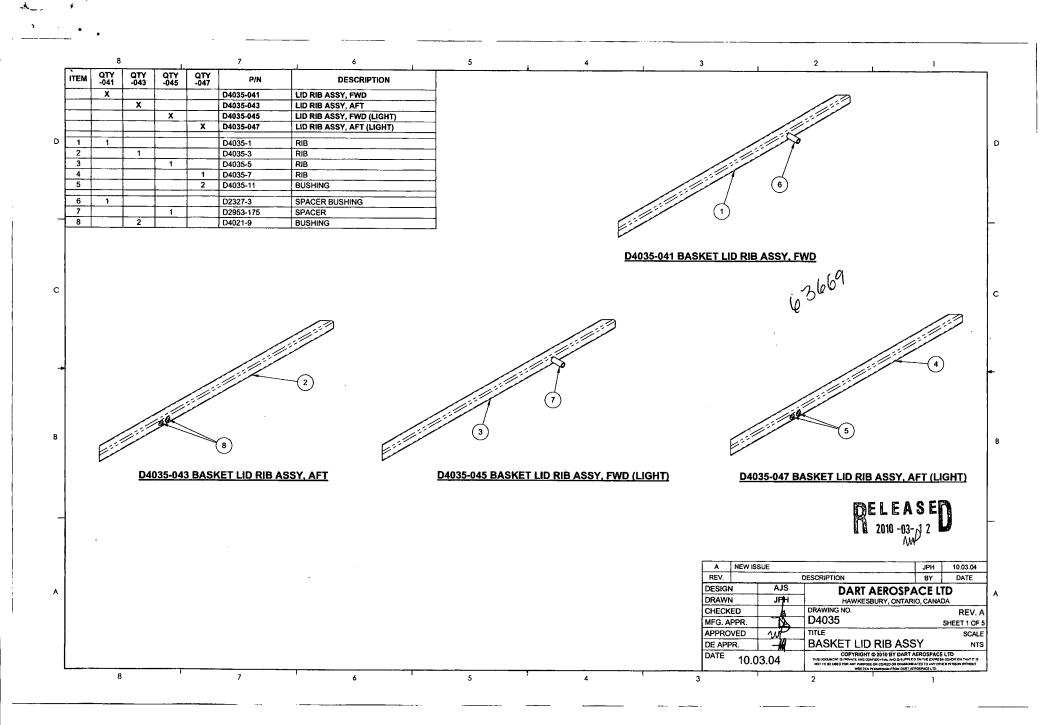
20.0263

9671

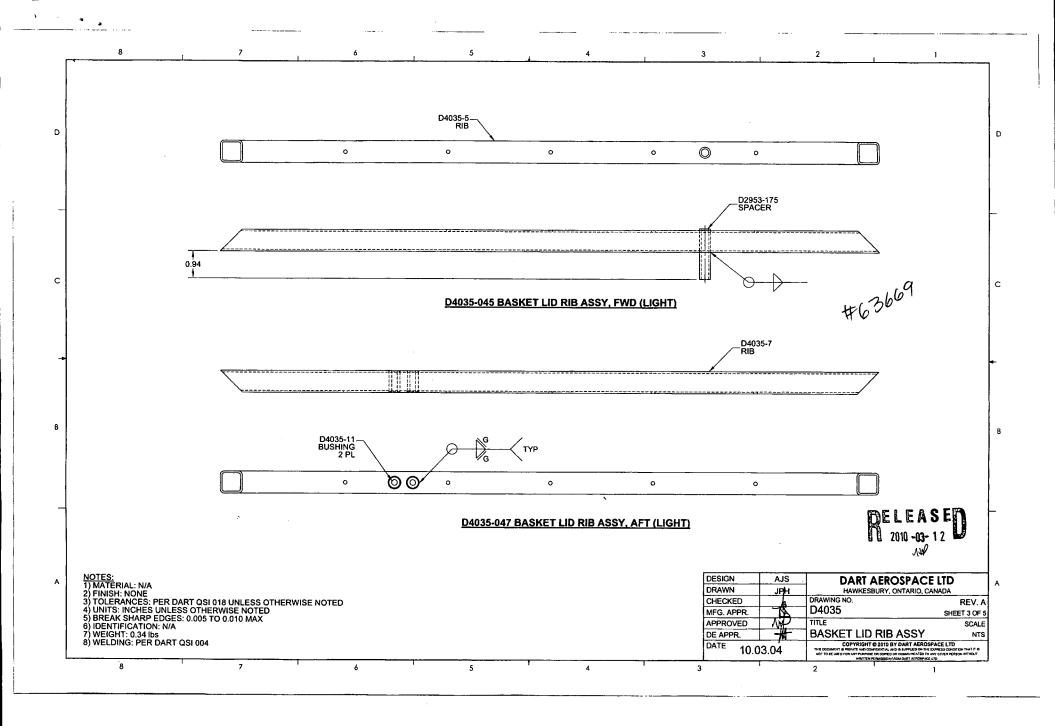
### **Dart Aerospace Ltd**

W/O:		WORK ORDER	CHANGES				
DATE	STEP	PROCEDURE CHANGE	Ву	Date	Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector
	!				:		
L							
Part No	:	PAR #: Fault Category:	NCR: Yes	No DQ	<b>A</b> :	Date:	

NCR:			WORK ORDER NON-CONFORMANCE (NCR)						
		Description of NC		Corrective Action Section E	3	Verification	Approval	Approval	
DATE	STEP	Section A	Initial Chief Eng	Action Description Chief Eng	Sign & Date	Section C	Chief Eng	QC Inspecto	
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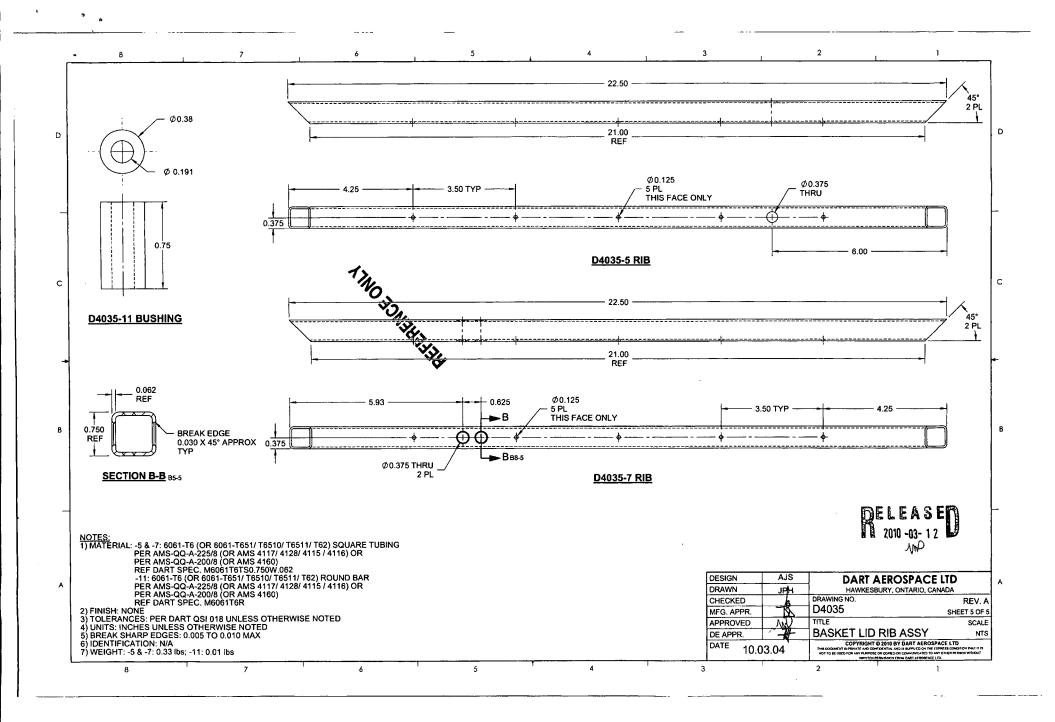


Dart Ae	rospace	Ltd							
W/O:			W	ORK ORDER CHANG	ES				
DATE	STEP	PRO	CEDURE CHA	NGE	Ву	Date	Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector
Part No		PAR #:							
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NCR:			WORK ORD	ER NON-CONFORM	ANCE (N	CH)			
		Description of NC			tion B	Ver	ification	Approval	Approval
DATE	STEP	Section A	Initial Chief Eng	Action Description Chief Eng		0	ection C	Chief Eng	QC Inspector
	1 1	•							



Dart Ae	rospace	Ltd							
W/O:			WORK ORDER CH	HANGES				-	
DATE	STEP	PRO	OCEDURE CHANGE		Ву	Date	Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector
Part No	:	PAR #:	Fault Category:	NC	R: Yes	No <b>DQ</b>	A:	Date: _	
	Re	esolution:	Disposition:	QA	: N/C C	losed:		Date: _	
NCR:			WORK ORDER NON-CONF	ORMANCI	E (NCI	R)			
DATE	STEP	Description of NC	Corrective Action Initial Action Descr	Section B	Sign	₽.	cation	Approval	Approval QC Inspector

NCR:		V	ORK ORD					
	T	Description of NC		Corrective Action Section B		Verification	Approval	Approval
DATE	STEP	Section A	Initial Chief Eng	Action Description Chief Eng	Sign & Date	Section C	Chief Eng	QC Inspector
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Date: Supplier: Dart P/O: Packing Slip: Release Note Attached: Waybill Attached: Invoice: Yes Receipt: Shipment Complete: QC6 Inspection \_\_L Work Order Discrepancies Part Quantity Quantity **Description** Quantity Quantity Number Comments Ordered Received Returned Short Initials of receiver (if shipment OK)

Location

**Receiving Report** 

H:\FORMS\Purchasing\approved purch\RECREPORT Rev.D

Production/Aamin:

Received/Costing

Initial



P.U. BOX 644 Exton, PA 19341-0644

\* INVOICE \*

REMIT TO:

RECEIVED MAY 1 3 2010

TW METALS, INC PO. BOX 933014 ATLANTA

GA 31193-3014

SALES OFFICE 585-768-5600

FED ID: 25-0883470

SOLD TO:

DART AEROSPACE LTD 1270 ABERDEEN ST HAWKESBURY ON K6A 1K7 CANADA

SHIP TO:

DART AEROSPACE LTD 1270 ABERDEEN ST HAWKSBURY ON K6A 1K7 ONTARIO CANADA

				27.7
P011825	į.		Mark St. Do.	SHICORCE SHIP
	-5 DAY	105/05/10	05/05/10	į .
		NET 30 DAYS		258 860 - 1 20
1 D6061-T6 3/4	SQ X 1065 WA RD CORNER			Amount
ECCN: EAR99	LENGTH: 12 FT ML	120.000 FT 10 EA	3.5000 FT	420.00

244				<b>1-7-</b>	1
.244 . 1236	420.00	.00 .00	.00		TOTAL RIVOICE
	ORIGINAL	IF PAID WITHIN DISCOUNT	.00	.00000	420.00

CONFIRMED PAGE 1

TENERS SIDE FOR YOUR CARSENII REVIEW

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T. KGA IK7

E 05/11/10 CONFIRMED





# CERTIFIED TEST REPORT http://Certs.KaiserAl\_minum.com

KAISER ALUMINUM FABRICATED PRODUCTS, LLC 6573 W. WILLIS ROAD CHANDLER, AZ 85226

1444000000000		CUSTOMER PART NUMBER: 86913			PRODUCT DESCRIPTION:							
KAISER ORDER NUMBEI	R: LINE ITEM:	SHIP DATE:		<u> </u>	Seamless Tube/Pipe  KAISER LOT NUMBER: JALLOY: JTD CD							
205020	001		03/27/2010			TEM: ER:						
WEIGHT SHIPPED:	QUANTITY:		B/L NUMBER:	<del>-(-</del>	DIAMODAF/THIKKIS: WIDTH							
459.000 LB 198.000 PCS		cs	204253		William Control	LENGTH:						
SHIP TO:					SOLD TO:	12.000 FT						
TW METALS INC	/A\/ 550 ==				TW METALS INC	<b>5</b>	1					
235 WEST TUBEWAY DRIVE CAROL STREAM, IL 60188 USA				760 CONSTITUTION DRIVE SUITE 204	2	74						
		•			EXTON, PA 19341 USA	10/07/12						

# **Actual Physical Properties**

REFERENCE	DASH#	SAMPLE#	UTS (KSI)	YTS (KSI)	ELONG%	HARDNESS	CONTR. T. C.C.	
F00007573	3001	1	48.7	46.5	15.9	N/A	CONTIACS N/A	BEND N/A

# Chemical Composition (wt%), Aluminum Remainder

									· · · · · · · · · · · · · · · · · · ·					
LIMITS	Si	Fe	Cu	Mn	Mg	Cr	Zn	Ti	T/L			-		
Maximum	0.80	0.70	0.40	0 15					Pb	Bi	Zr	Ea	Tot	
Minimum	0.40	0.00	0.15	0.00		0.35			NA	NA	NA	0.05	0.15	
D67811	.59	.29	.24	.06	.96	.06	.06	.02	NA	NA	NA	0.00	0.00	
D67767	. 62	.33	.24	.05	.96	.09	.07	.03	.00	.00	.00	.01	.02	
						_			.00	.00	. 00	Λ1	Λ 2	



#### CERTIFICATION

Kaiser Aluminum Fabricated Products, LLC ('Kaiser') hereby certifies that metal shipped under this order has been inspected and tested and found in conformance with the applicable specifications forming a part of the description set forth in Kaiser's sales acknowledgement form. Any warranty is limited to that shown on Kaiser's general terms &conditions of sale. Test reports are on file subject to examination.

Chris Garcia, Quality System Engineer

Plant Serial: 00006613

Kaiser Order Number: 205020

Line Item: 001

Page 1 of 2



~ m · / rei ospace biu. 1270 Aberdeen Street Hawkesbury, ON K6A 1K7

Tel: 613 632 9577 Fax: 613 632 1053

#### **PURCHASE ORDER**

# Purchase Order ID PO11825

Purchase Order Date 5/04/10 PO Print Date 5.04/10

Page Number . of 1

Order From:

TW METALS PO BOX 933014

ALTANTA, GA 31193-3014

US

Contact Name

Vendor Phone

585 768 5600

Vendor Fax

585 768 5601

Vendor Account Nbr

Buyer

Chantal Lavoie

Requisition Nbr

Tax Resale Nbr

10127-2607

Terms Currency Net 30 USD

**FOB** 

Ship To:

DART AEROSPACE LTD

1270 ABERDEEN

HAWKESBURY, ON K6A 1K7

VU-TWM001

CANADA

Line Nbr Reference Revision ID

Vendor Part Number

Description/ Mfg ID

x .062W

Req Date/

Taxable Unit of Measure

Req Qty/ Ship Method

Unit Price

Extended Price

M6061T6TS0.750W.062

6061-T6 SQ Tube .75 x .75

Special Inst:

5/11/10

120.00

f

\$3.5000

\$420.00

Yes

MATERIAL: 6061-T6 OR 6061-T62 TUBING PER

WW-T-700/6 OR AMS4080 OR AMS 4082

QQ-A-200/8 OR QQ-A-225/8 MATIAL: 6061-T6 SQUARE TUBING .750" X .750" X .065" WALL 💸

PO Total:

\$420.00

MATERIAL CERTIFICATION HEO'D UPON DELIVERY

PLEASE SHIP: BAX GLOBAL ACCT:152700192

No substitution or deviation without

consent.

Certificate of Conformity or Material Certification required when applicable

Change Nbr:

Change Date:

5/04/10